Laserglow Product Datasheet

LLD-0885 Low-Noise Collimated Diode Laser System

Laserglow Part Number: J881005FX

This model is listed as **inactive** in our product database. Stock may be limited, and availability is subject to change without notice.



Similar Products:

For information about the other lasers in this product family visit:

http://www.laserglow.com/J88

Ordering:

Order Online Now or Request Quote:

http://www.laserglow.com/J881005FX

Series Specifications:

Nominal Wavelength	885 nm
Output Type	CW
Laser Source Type	Diode

Overview:

The LLD-0885 Series of Low-Noise Collimated Diode Lasers are ideal for applications requiring less than 1% noise and output power levels from 100 mW to 1500 mW. These 885 nm NIR lasers maintain a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for fluorescence excitation, PIV, Raman Spectroscopy, and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

Key Features:

- 1% optical noise (20 Hz-20 MHz)
- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- FDA CDRH Compliant Class IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number J881005FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to J881005FX have been highlighted below in **red + bold**.

Output Power (mW)	**>100**, >200, >500, >1000, >1500
Output Power Stability (%RMS/4h)	<1, <3, **<5**
Central Wavelength (nm)	**885**
Wavelength Tolerance (+/- nm)	**5**
Divergence (mrad, full angle)	**<3**
Beam Dimensions (mm, $1/e^2$)	5x8
Warm-up Time (minutes)	**5**
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	**<1**
M^2	**<20**
Polarization Ratio	**>50**
Beam Pointing Stability (mrad)	**<0.05**
Operating Temperature Range (°C)	**10 to 35**
Max. Analog Modulation Freq. (Hz)	**30000**
Max. TTL Modulation Freq. (Hz)	**30000**
Modulation Input Signal	**0-5 VDC**
Max. Power Input Duty Cycle	**100%**
Standard Warranty (months)	**12**
MTTF (operational hours)	**10000**
Weight of Product or Laser Head (kg)	**0.6**
Beam Height from Base Plate (mm)	**24.8**
Dimensions of Product or Laser Head (mm)	**140.7 (l) x 73 (w) x 46.2 (h)**

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Power Supply Options:

These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

FDA-Compliant LabSpec 	Power Supply Type:	**FR**
	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**1.5**
	Dimensions (mm)	**154 (l) x 155 (w) x 95 (h)**

*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

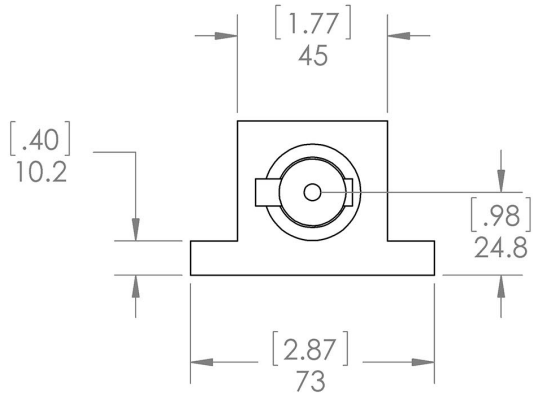
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

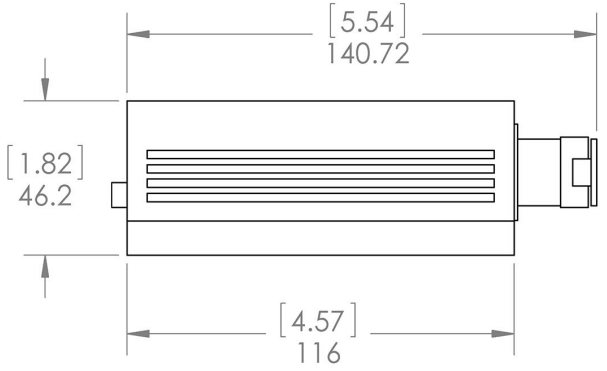
Regulatory Classification:

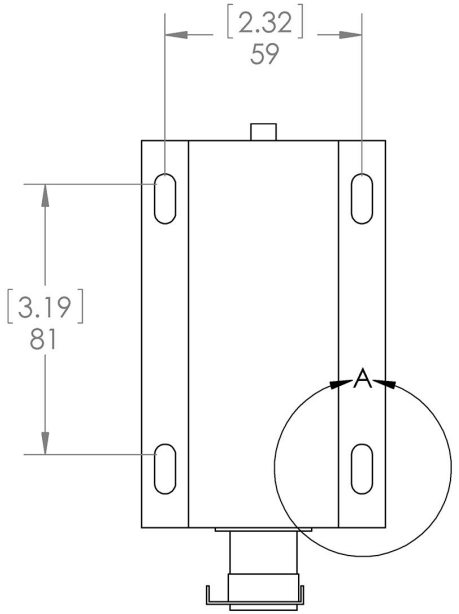
The model you have selected (J881005FX) requires the following safety label(s):

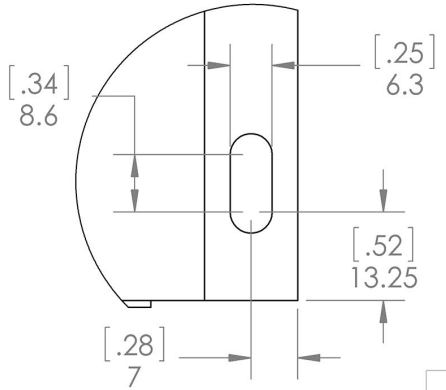


Dimensional Drawing - Laser Form Factor: R:

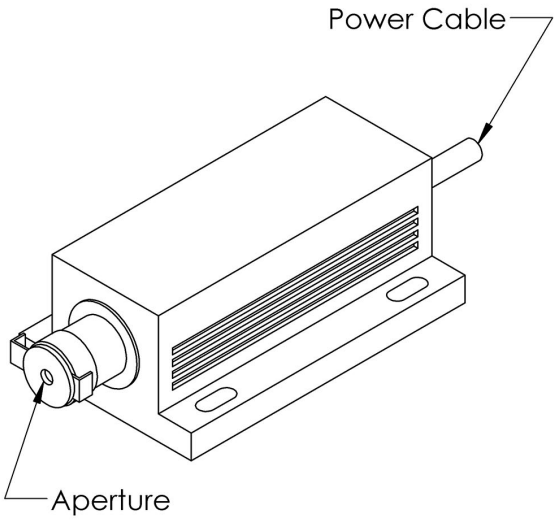








DETAIL A
SCALE 1 : 1



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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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TITLE:

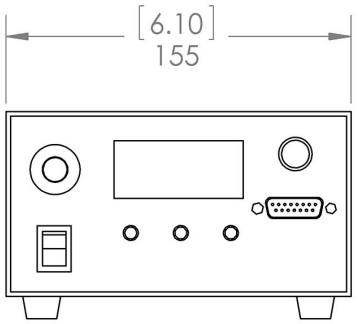
Lab/OEM M/R Housing

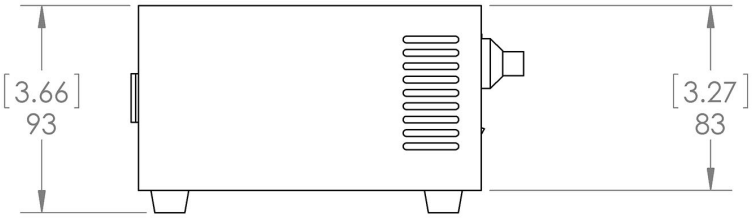
REV 1

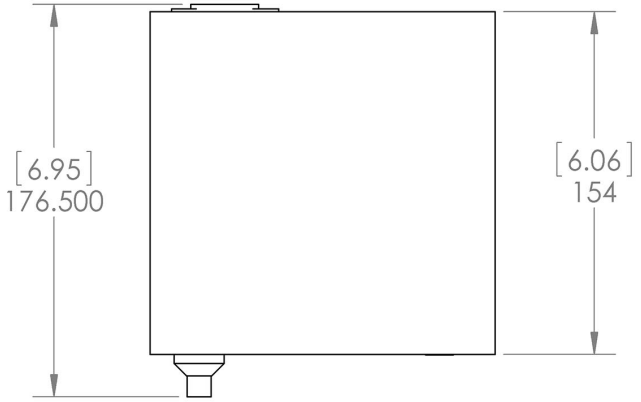
SCALE: 1:2

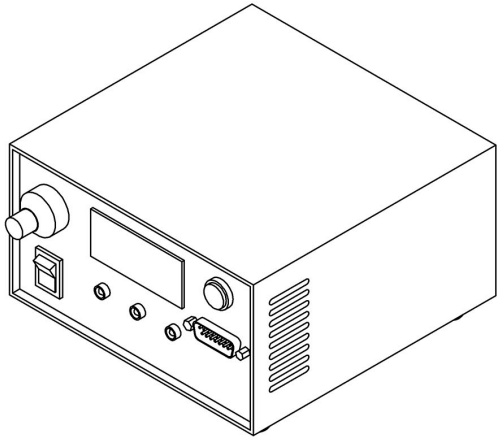
SHEET 1 OF 1

Dimensional Drawing - Power Supply Form Factor: FR:









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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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TITLE:

Power Supply FM/FR

REV 1

SCALE: 1:3

SHEET 1 OF 1

Accessories:

The most popular accessories for model J881005FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AGFKTP59X	LSG-KTP-NF-6 Fit-Over Safety Goggles 532/808/1064nm Output: OD 6+ at 190-534/740-1064 nm CE Certified Full Details: www.laserglow.com/AGF	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 ACFNIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (700 to 1000 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSNIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (700 to 1000nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 ACALBMXXX	Carrying Case-102 Holds Lab/OEM M, R and S size, standard or LabSpec laser Full Details: www.laserglow.com/ACA	Included With Laser

FOR MORE INFORMATION PLEASE CONTACT:

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